UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/676,544	09/29/2000	Georgios Chrysanthakopoulos	03797.85750	2723

67321   7590   04/25/2007
BIRCH, STEWART, KOLASCH & BIRCH, LLP
8110 GATEHOUSE ROAD
SUITE 100 EAST
FALLS CHURCH, VA 22040-0747

EXAMINER
DALEY, CHRISTOPHER ANTHONY

ART UNIT	PAPER NUMBER
2111	

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/25/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
Office Action Summary	09/676,544	CHRYSANTHAKOPOULOS ET AL.
	Examiner	Art Unit	
	Christopher A. Daley	2111	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *1-7, 16-33*.

2a)☐ This action is **FINAL.**   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-7 and 16-33* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-7, 16-33* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

        1.☐ Certified copies of the priority documents have been received.

        2.☐ Certified copies of the priority documents have been received in Application No. _____.

        3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application

6)☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

2.   Claims 1 – x are rejected under 35 U.S.C. 103(a) as being unpatentable over

Dorfman in view of Reardon I (US6212635).

1.   As to claim 1, Dorfman discloses: A method for remotely communication bus, the

method comprising: receiving, via the communication bus, a management command

(Figure 1 illustrates a computer network remotely coupled via a communication bus

comprising elements 14, 30, and 54, where a command is sent from server 10 to

receiver 50 over said communication bus, COL. 5, lines 25 – 35);

determining whether the management command was received at a management port

coupled to the communication bus (Dongle 40 serving as the managing element on

receiving machine 50, is checked to allow access to said machine, COL. 5, lines 45 –

50); and

when the management command was received at the management port, executing the

management command (Should the access protocol be validated, access commands

are executed, COL. 9, lines 10 – 14); and

Dorfman does not explicitly disclose predetermining one port of the computer as

a management port and deeming the management port as authorized for receiving one

or more management commands.

However, Reardon teaches predetermining one port of the computer as a

management port and deeming the management port as authorized for receiving one or

more management commands as illustrated in Figure 1. Said figure illustrates a security

gateway 12 that is predetermined to manage access to computer resources.   All

commands to computer resources such as commands from users are mediated through

a user token and processing of said token by the security gateway port, COL. 3, line 60-

Col. 4, line 17. It would have been obvious to one of ordinary skill in the art at the time

of the invention to use the security gateway of Reardon in the system of Dorfman

manage the access to peripherals to protect the system from malicious events, COL. 3,

lines 13 – 28. One of ordinary skill in the art would have been motivated to use the

security gateway of Reardon in the system of Dorfman manage the access to

peripherals to protect the system from malicious events, COL. 3, lines 13 – 28.

2.   As to claim 2, Dorfman discloses: The method and computer instructions, further

comprising: providing, via the communication bus, data to at least one device coupled to

the communication bus in response to the step of executing the management command

(Data for encryption is sent from host device 10 to receiving device 50, COL. 9, lines 32

– 35).

3.   As to claim 3, Dorfman discloses: The method, further comprising:

when the management command was not received at the-the management port,

ignoring the management command (Should the access protocol be invalid, the

command is ignored, COL. 2, lines 55 – 61).

4.   As to claim 5, Dorfman discloses: A computer-readable medium having stored

thereon computer executable instructions for performing the method (Figure 2 illustrates

said storage device, 45 of the dongle, 40).

5.   As to claim 6, Dorfman discloses: A computer-readable medium having stored

thereon computer executable instructions for performing the method (Figure 2 illustrates

said storage device of the dongle).

6.   As to claim 7, Dorfman discloses: A computer-readable medium having stored

thereon computer executable instructions for performing the method (Figure 2 illustrates

said storage device such as temp. memory 45 of the dongle).

7.   As to claim 30, Dorfman discloses: A method for remotely managing a computer

coupled to a communication bus, the method comprising: identifying a first device

coupled to a first port of the computer and a second device coupled to a second port of

the computer, the first port configured to be a management port (Figure 1 illustrates

dongle 20 coupled to the parallel port, and a second device, keyboard coupled to the

keyboard port);

receiving, via the communication bus, the management command from one of the first

and second devices (First port dongle 20 receives command as illustrated in figure 3,

step 106);

determining whether the management command was received at the management port

coupled to the communication bus (Figure 4a step 110), COL. 7, lines 15 – 20); and

when the management command was received at the management port, authorizing

the execution of the management command irrespective of an identifier of the first

device, and executing the management command (Figure 4a, step 112, COL. 7, lines

34 – 35); Reardon teaches predetermining one port of the computer as a management

port and deeming the management port as authorized for receiving one or more

management commands as illustrated in Figure 1.(Said figure illustrates a security

gateway 12 that is predetermined to manage access to computer resources.   All

commands to computer resources such as commands from users are mediated through

a user token and processing of said token by the security gateway port, COL. 3, line 60-

Col. 4, line 17).

8.   As to claim 31, Dorfman discloses: The method, further comprising a step of

providing, via the communication bus, data to the first device in response to the step of

executing the management command (Figure 4a, step 114, COL. 7, lines 35 – 36).

9.   As to claim 32, Dorfman discloses: The method, further comprising a step of

when the management command was not received at the management port, ignoring

the management command (Figure 4a, step 112, COL. 7, lines 34 – 35).

Claim Rejections - 35 USC § 103

10.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

11.   Claims 4,16 – 29, and 33 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Dorfman, in view of Palm (US6873652).

12.   As to claims 4, 22, and 33, Dorfman does not explicitly disclose: The method,

wherein the communication bus is an IEEE 1394-compliant serial bus.

However, Palm teaches the method, wherein the communication bus is an IEEE

1394-compliant serial bus coupling between host computer 82 and receive computer 84

by communication channel 5. It would have been obvious to one of ordinary skill in the

art at the time of the invention to use the communication channel of Palm in the system

of Dorfman to enable to a variety of connection means for communication between both

devices, COL. 6, lines 20 – 28. One of ordinary skill in the art would have been

motivated to use the communication channel of Palm in the system of Dorfman to

enable to a broad means of communication between both devices, COL. 6, lines 20 –

28.

13.   As to claim 16, Dorfman discloses: A computer comprising:

a processor (Figure 2, element 42);

an interface, coupled to the processor, comprising at least one port wherein

the interface passes management commands received from a management port of the

at least one port to the processor and ignores any management command received at

the port of the at least one port other than the management port (Figure 2, interface port

49 used to determine authorization and enable communication with receive computer

via port 48, COL. 5, lines 60 – 67); and

memory, coupled to the processor, having stored thereon computer executable

instructions that, when executed by the processor, cause the computer to:

execute at least one management command received at the management port (memory

45 performs said function, COL. 5, lines 60 – 65).

Reardon teaches predetermining one port of the computer as a management port and

deeming the management port as authorized for receiving one or more management

commands as illustrated in Figure 1. Said figure illustrates a security gateway 12 that is

predetermined to manage access to computer resources.   All commands to computer

resources such as commands from users are mediated through a user token and

processing of said token by the security gateway port, COL. 3, line 60- Col. 4, line 17.

Dorfman as modified by Reardon does not disclose an IEEE1394 interface.

However, Palm teaches the method, wherein the communication bus is an IEEE 1394-compliant serial bus coupling between host computer 82 and receive computer 84 by communication channel 5. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the communication channel of Palm in the system of Dorfman/Reardon to enable to a variety of connection means for communication between both devices, COL. 6, lines 20 – 28. One of ordinary skill in the art would have been motivated to use the communication channel of Palm in the system of Dorfman/Reardon to enable to a broad means of communication between both devices, COL. 6, lines 20 – 28.

14.   As to claim 17, Dorfman discloses: The method and computer instructions, further comprising: providing, via the communication bus, data to at least one device coupled to the communication bus in response to the step of executing the management command (Data for encryption is sent from host device 10 to receiving device 50, COL. 9, lines 32 – 35).

15.   As to claim 18, Dorfman discloses: The computer, wherein the computer executable instructions, when executed by the processor, further cause the computer to: identify one or more authorized management devices coupled to the management port (Host computer 10 send identification sequence to receive computer 50 via dongle 40 coupled to computer 50 parallel port, COL. 5, lines 37 – 53).

16.   As to claim 19, Dorfman discloses: A system comprising the computer, and

further comprising: a management device coupled, via the serial bus, to the

management port, wherein the management device provides the at least one

management command (Management device dongle 20 of figure 1 issues said

command as shown in figure 3, step 104); and

Palm discloses an IEEE 1394-compliant serial bus coupled to the IEEE 1394

interface (1394-compliant serial bus coupling between host computer 82 and receive

computer 84 by communication channel 5.

17.   As to claim 20, Dorfman discloses: The system of claim 19, wherein the

management device is another computer (Figure 2 illustrates to management unit that

comprises said computer 42, COL. 5, lines 56 – 60).

18.   As to claim 21, Dorfman discloses: A computer-readable medium comprising

computer-executable components for enabling remote management of a computer via a

communication bus, the computer-executable components comprising:

a bus interface component that communicates with a bus

and that receives one or more management commands via the bus via an

asynchronous or an isochronous channel (Dongle 40 of figure 2 comprises temporary

memory 45 used to store access management commands that is received over

asynchronous channel 14, COL. 7, lines 53 – 65); and

a management command authorization component, in communication with the bus

interface component, that determines whether each of the one or more management

commands is authorized based on whether each of the one or more management

commands was received at a management port coupled to the communication bus

(Dongles 20, and 40 are port management units coupled to their respective computers

to manage the authorization of access to computers 10 and 50 coupled together by a

network comprising 14, 30, and 54, COL. 5, lines 36 – 53);

Reardon teaches predetermining one port of the computer as a management port and

deeming the management port as authorized for receiving one or more management

commands as illustrated in Figure 1. Said figure illustrates a security gateway 12 that is

predetermined to manage access to computer resources.   All commands to computer

resources such as commands from users are mediated through a user token and

processing of said token by the security gateway port, COL. 3, line 60- Col. 4, line 17.

Palm teaches a 1394-compliant serial bus (IEE1394 bus channel coupling

between host computer 82 and receive computer 84 by communication channel 5.

19.   As to claim 23, Dorfman discloses the computer-readable medium, further

comprising; host interface component, in communication with the management

command authorization component and a host comprising a portion of the computer,

that sends the one or more management commands to the host for execution when the

one or more management commands are authorized and require host intervention

(Figure 2 illustrates host interface 49 coupled to dongle as shown in said figure.

Authorization protocol is stored in temporary memory 45 and compared with password

of remote computer port to enable access, COL. 6, lines 5 – 26).

20.   As to claim 24, Dorfman discloses: The computer-readable medium, wherein the

host interface component executes the one or more management commands when the

one or more management commands are authorized and do not require the intervention

of the host (Dongle 20 of figure 1 of host computer 10 performs said function, COL. 6,

lines 45 – 60).

21.   As to claim 25, Dorfman discloses: The computer-readable medium, wherein the

host interface component does not send the one or more management commands to

the host when the one or more management commands are not authorized (Figure 4,

step 112 illustrates said response when authorization is not permitted, COL. 7, lines 30

– 36).

22.   As to claim 26, Dorfman discloses: The computer-readable medium according

wherein the one or more management commands are received via an asynchronous or

isochronous channel (Dongle 40 of figure 2 comprises temporary memory 45 used to

store access management commands that is received over asynchronous channel 14,

COL. 7, lines 53 – 65).

23.   As to claim 27, Dorfman discloses: The computer-readable medium further

comprising a host interface component, in communication with the management

command authorization component and a host comprising a portion of the computer,

that sends the one or more management commands via the isochronous channel to the

host for execution when the one or more management commands are authorized and

require host intervention (Figure 5 illustrates said steps that requires host interaction,

COL. 8, lines 48 – 65) .

24.   As to claim 28, Dorfman discloses: The computer-readable medium, wherein the

host interface component receives the one or more management commands via the

asynchronous channel and executes the one or more management commands when

the one or more management commands are authorized and do not require the

intervention of the host (Dongle 20 of figure 1 of host computer 10 performs said

function, COL. 6, lines 45 – 60).

25.   As to claim 29, Dorfman discloses: The computer-readable medium, wherein the

host interface component receives the one or more management commands via the

asynchronous channel and executes the one or more management commands when

the one or more management commands are authorized and do not require the

intervention of the host (Dongle 40 of figure 1 of host computer 50 performs said

function, COL. 6, lines 45 – 60).

Response to Arguments

26.   Applicant's arguments with respect to claims 1,16,21, and 30 have been

considered but are moot in view of the new ground(s) of rejection.

With regards to the applicant's argument that prior art does not teach

predetermining one port of the computer as a management port and deeming the

management port as authorized for receiving one or more management commands.

However, Reardon teaches predetermining one port of the computer as a management

port and deeming the management port as authorized for receiving one or more

management commands as illustrated in Figure 1. Said figure illustrates a security

gateway 12 that is predetermined to manage access to computer resources.   All

commands to computer resources such as commands from users are mediated through

a user token and processing of said token by the security gateway port, COL. 3, line 60-

Col. 4, line 17.

Conclusion

27.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Christopher A. Daley whose telephone number is 571

272 3625. The examiner can normally be reached on 9 am. - 4p m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mark Rinehart can be reached on 571 272 3632. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CAD
4/18/2007

MARK H. RINEHART
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100